

ABSTRACT

A rotating electric machine (1) includes a stator (2) and a rotor (3). The tip of a salient pole portion of the rotor (3) is bilaterally asymmetrically provided with a cut.

5 The effect of the cut reduces torque ripple during a regenerative running mode. The regenerative running mode is not performed during low speed running but is often performed during high speed running and the driver is more sensitive to in the regenerative running mode noise than in a power running mode. As for the regenerative running mode, measures against torque ripple are taken based on the

10 structure of the rotating electric machine. Preferably, as for the power running mode which bothers the driver about noise during very low speed running, a controller allows a compensation current to be fed to take measures against torque ripple. A compact and high power vehicle drive system with torque ripple reduced and a vehicle incorporating the vehicle drive system can be provided.